STIC Search Report
EIC 2100

Scientific & Technical Information Center
S T I C
USPTO

STIC Database Tracking Number: 141535

TO: Fred Ehichoya
Location: Jeff 3B31
Art Unit : 2162
Wednesday, January 05, 2005

Case Serial Number: 09/925397

From: David Holloway
Location: EIC 2100
RND 4B19
Phone: 2-3528

david.holloway@uspto.gov

Search Notes

Dear Examiner Ehichoya,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David

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Set     Items    Description
S1    2145674    SEARCH? OR QUERY OR QUERIES OR MATCH? OR SEEK? OR LOCATE? -
                 OR LOCATING
S2      17448    S1(8N)(MULTIMEDIA? OR MULTI()MEDIA? OR MOVING()(PICTURE? OR
                 IMAGE?) OR MPEG? OR MPG? OR WAV OR VIDEO? OR AUDIO? OR SOUND-
                 ?)
S3     464875    (LOW OR HIGH)()LEVEL? OR HIGHLEVEL? OR LOWLEVEL?
S4    3726709    TRANSLAT? OR TRANSFORM? OR REFORMAT? OR CONVERT? OR CONVER-
                 SION? OR COMPILE?
S5      51233    (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR MANY OR
                 SEVERAL OR DIFFERENT?)(3N)(DATABASE? OR ENGINE? OR SEARCHENG-
                 INE? OR DB OR RDB OR DATA()(BANK? OR BASE?))
S6      48891    (LIBRAR? OR COLLECTION? OR GROUP? OR CLUSTER?)(3N)(MODULE?
                 OR CONSTRAINT? OR CONSTRUCT? OR TEMPLATE? OR CONCEPT?)
S7      20590    (SAVE? OR CACHE? OR PRESERV? OR DATABASE? OR DATABANK? OR -
                 DB OR DATA()(BASE? OR BANK?))(3N)(QUERY OR QUERIES OR SEARCH(-
                 )(STRING? OR STATEMENT? OR STEP OR STEPS))
S8         61    S2 AND S3 AND S4
S9          8    S8 AND (S5 OR S6 OR S7)
S10         0    S2 AND S3 AND S4 AND S5
S11         1    S3 AND S4 AND S5 AND S6
S12        18    S3 AND S4 AND S5 AND S7
S13        27    S12 OR S11 OR S9
S14        18    RD (unique items)
S15        74    S8 OR S14
S16        56    RD (unique items)
S17        35    S16 NOT PY>2001
S18        35    S17 NOT PD=20010809:20040809
S19        35    S18 NOT PD=20040809:20050112
File   8:Ei Compendex(R) 1970-2005/Dec W4
          (c) 2005 Elsevier Eng. Info. Inc.
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          (c)2004 Japan Science and Tech Corp(JST)
File 111:TGG Natl.Newspaper Index(SM) 1979-2005/Jan 03
          (c) 2005 The Gale Group
File   6:NTIS 1964-2004/Dec W4
          (c) 2004 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2004/Dec W1
          (c) 2004 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
          (c) 1998 Inst for Sci Info
File  34:SciSearch(R) Cited Ref Sci 1990-2004/Dec W4
          (c) 2004 Inst for Sci Info
File  62:SPIN(R) 1975-2004/Oct W4
          (c) 2004 American Institute of Physics
File  99:Wilson Appl. Sci & Tech Abs 1983-2004/Nov
          (c) 2004 The HW Wilson Co.
File  95:TEME-Technology & Management 1989-2004/Jun W1
          (c) 2004 FIZ TECHNIK
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    19/5/1   (Item 1 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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05992031   E.I. No: EIP02046834669
    Title: **Improving federated** database   queries **using declarative rewrite rules for quantified subqueries**
    Author: Kemp, Graham J.L.; Gray, Peter M.D.; Sjostedt, Andreas R.

    Corporate Source: Department of Computing Science University of Aberdeen King's College, Aberdeen, AB24 3UE, United Kingdom

    Abstract: **Transforming** queries for efficient execution is particularly important in federated database systems since a more efficient execution plan can require many fewer data requests to be sent to the component databases. Also, it is important to do as much as possible of the selection and processing close to where the data are stored, making best use of facilities provided by the federation's component database management systems. In this paper we address the problem of processing complex queries including quantifiers, which have to be executed against **different databases** in an expanding heterogeneous federation. This is done by **transforming** queries within a mediator for global query improvement, and within wrappers to make the best use of the query processing capabilities of external databases. Our approach is based on pattern matching and query rewriting. We introduce a **high   level** language for expressing rewrite rules declaratively, and demonstrate the use and flexibility of such rules in improving query performance for existentially quantified subqueries. Extensions to this language that allow generic rewrite rules to be expressed are also presented. The value of performing final **transformations** within a wrapper for a given remote **database** is shown in **several** examples that use AMOS II - an SQL3-like system. 32 Refs.

    Descriptors: *Distributed **database** systems; **Query** languages; Pattern matching; **High   level** languages; Data storage equipment; Information retrieval; Data structures
    Identifiers: Federated database system; Functional data model; Query processing; Query rewriting; Rewrite rules
    Classification Codes:
    723.1.1 (Computer Programming Languages)
    723.3 (Database Systems); 723.1 (Computer Programming); 723.5 (Computer Applications); 722.1 (Data Storage, Equipment & Techniques); 723.2 (Data Processing)
    723 (Computer Software, Data Handling & Applications); 722 (Computer Hardware)
    72 (COMPUTERS & DATA PROCESSING)

05944018   E.I. No: EIP01476740320
   Title: **IMKA: A multimedia organization system combining perceptual and semantic knowledge**

   Author: Benitez, A.B.; Chang, S.-F.; Smith, J.R.
   Corporate   Source: Dept.   of Electrical Engineering Columbia University, New York, NY 10027, United States
   Conference   Title: -ACM Multimedia 2001 Workshops- 2001 Multimedia Conference
   Conference   Location: Ottawa,   Ont.,   Canada   Conference   Date: 20010930-20011005
   Sponsor: ACM Special Interest Groups
   E.I. Conference No.: 58703
   Source: Proceedings of the ACM International Multimedia Conference and Exhibition n IV 2001. p 630-631
   Publication Year: 2001
   Language: English
   Document Type: CA; (Conference Article)   Treatment: A; (Applications)
   Journal Announcement: 0111W4

   Abstract: In this demo, we present the IMKA system, which implements the innovative approach of integrating perceptual information such as   **low – level** features and images, and symbolic information such as words to represent the knowledge associated with a large multimedia collection for multimedia organization and retrieval. The IMKA system utilizes the unique MediaNet framework, which greatly extends existing knowledge representation tools in the text domain (e.g., semantic networks and WordNet) and the multimedia domain (e.g., Multimedia Thesaurus) by combining perceptual and semantic concepts in the same network and by supporting perceptual and semantic relationships among concepts exemplified by different media. It also brings the level of multimedia retrieval closer to users' needs by **translating low – level** feature queries to **high – level** semantic queries and vice versa. We will demonstrate the process of constructing the MediaNet knowledge base and new ways of **searching multimedia** in the IMKA system by presenting the current implementation of the IMKA system that uses image collections from online sources. 4 Refs.
   Descriptors: ***Multimedi** a systems; Semantics; Thesauri; Online **searching** ; Knowledge representation
   Identifiers: Multimedia organization system; Knowledge construction
   Classification Codes:
   723.5 (Computer Applications); 903.2 (Information Dissemination); 723.4 (Artificial Intelligence)
   723 (Computer Software, Data Handling & Applications); 903 (Information Science)
   72 (COMPUTERS & DATA PROCESSING); 90 (ENGINEERING, GENERAL)

05654717   E.I. No: EIP00095338217
   Title: Integration of intelligent engines for a large scale medical image database
   Author: Tang, Lilian H.Y.; Hanka, Rudolf; Ip, Horace H.S.; Cheung, Kent K.T.; Lam, Ringo
   Corporate Source: Univ of Cambridge, Cambridge, Engl
   Conference Title: CBMS 2000: 13th IEEE Sympoisum on Computer-Based Medical Systems
   Conference   Location: Houston,   TX,   USA   Conference   Date: 19000622-19000624
   Sponsor: IEEE
   E.I. Conference No.: 57265
   Source: Proceedings of the IEEE Symposium on Computer-Based Medical Systems 2000. IEEE, Los Alamitos, CA, USA. p 235-240
   Publication Year: 2000
   CODEN: PSCSFM   ISSN: 1063-7125
   Language: English
   Document Type: CA; (Conference Article)   Treatment: A; (Applications); T ; (Theoretical)
   Journal Announcement: 0010W4
   Abstract: In this paper we present a semantic content representation scheme and the associated techniques for supporting (a) query by image examples or by natural language in a histological image database and (b) automatic annotation generation for images through image semantic analysis. In this research, various types of query are analysed by either a semantic analyser or a natural language analyser to extract **high level** concepts and histological information, which are subsequently **converted** into an internal semantic content representation structure code-named 'Papillon'. Papillon serves not only as an intermediate representation scheme but also stores the semantic content of the image that will be used to match against the semantic index structure within the image **database** during **query** processing. During the image database population phase, all images that are going to be put into the database will go through the same processing so that every image would have its semantic content represented by a Papillon structure. Since the Papillon structure for an image contains **high level** semantic information of the image, it forms the basis of the technique that automatically generates textual annotation for the input images. Papillon bridges the gap between **different** media in the **database** , allows complicated intelligent browsing to be carried out efficiently, and also provides a well-defined semantic content representation scheme for **different** content processing **engines** developed for content-based retrieval. (Author abstract) 4 Refs.
   Descriptors: *Medical imaging; Search engines; Database systems; Large scale systems; Computational linguistics; Natural language processing systems; Data structures; Information retrieval
   Identifiers: Intelligent engines; Medical image database; Content based retrieval; Histological image
   Classification Codes:
   461.1 (Biomedical Engineering); 723.4 (Artificial Intelligence); 723.3 (Database Systems); 721.1 (Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory); 723.2 (Data Processing); 723.5 (Computer Applications)
   461 (Biotechnology); 723 (Computer Software); 721 (Computer Circuits & Logic Elements)
   46 (BIOENGINEERING); 72 (COMPUTERS & DATA PROCESSING)

19/5/14   (Item 14 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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04515407   E.I. No: EIP96103350010
   Title: **Integration of a relational database with multimedia data**
   Author: Chung, Soon M.; Mah, Pyeong S.; Kim, Junguk L.
   Corporate Source: Wright State Univ, Dayton, OH, USA
   Conference Title: Proceedings of the 1996 IEEE 20th Annual International
Computer Software & Applications Conference, COMPSAC'96
   Conference Location: Seoul, S Korea   Conference Date: 19960821-19960823
   Sponsor: IEEE
   E.I. Conference No.: 45361
   Source: Proceedings - IEEE Computer Society's International Computer
Software & Applications Conference 1996. IEEE, Los Alamitos, CA,
USA,96CB35986. p 290-297
   Publication Year: 1996
   CODEN: PSICD2   ISSN: 0730-6512
   Language: English
   Document Type: CA; (Conference Article)   Treatment: A; (Applications); T
; (Theoretical)
   Journal Announcement: 9611W4

   Abstract: In this paper, we propose a method to integrate a preexisting
conventional database system with a multimedia server in the multidatabase
environment. In the multidatabase environment, changes in the preexisting
database system are not allowed because such changes are too expensive. For
the integration, **high - level** semantic description of multimedia data is
modeled using the enhanced entity-relationship (EER) model to support
content-based retrieval of multimedia data. The EER design is **translated**
into a schema of the preexisting database system, and then the **translated**
schema is integrated with the preexisting database schema. The content
description can be used to **locate** pertinent **multimedia** data, and the
identifiers are used to access the multimedia data stored in the multimedia
server. However, with only a simple schema representation of the semantic
description of **multimedia** data, **high levels** of recall and precision
of **queries** may not be obtained because conventional database systems
provide only exact matching answers to the query. Thus, we extended the
conventional query processing mechanism by providing a modified cooperative
query answering mechanism. (Author abstract) 19 Refs.
   Descriptors: *Relational **database** systems; Data structures; **Query**
languages; Data description; Computational linguistics; Information
retrieval
   Identifiers: Multimedia data; Enhanced entity relationship; Content based
retrieval; Semantic description; Cooperative query; Binary large object;
Cooperative query answering mechanism; Information systems
   Classification Codes:
   723.1.1 (Computer Programming Languages)
   723.3 (Database Systems); 723.2 (Data Processing); 723.1 (Computer
Programming); 721.1 (Computer Theory, Includes Formal Logic, Automata
Theory, Switching Theory, Programming Theory); 903.3 (Information
Retrieval & Use)

03622365   E.I. No: EIP93020715014
   Title: **Semantic query processing in multidatabase systems: a logic-based approach**
   Author: Pan, Miin-Jeng; Chang, Shi-Kuo; Yang, Chien-Chiao
   Corporate Source: Natl Taiwan Inst of Technology, Taiwan
   Conference Title: Proceedings of the Third Workshop on Future Trends of Distributed Computing Systems
   Conference Location: Taipei, Taiwan   Conference Date: 19910414
   Sponsor: IEEE
   E.I. Conference No.: 17752
   Source: Proceedings of the Third Workshop on Future Trends of Distributed Computing Systems Proc Third Workshop Future Trends Distrib Comput Syst 1992. Publ by IEEE, Computer Society, Los Alamitos, CA, USA. p 318-324
   Publication Year: 1992
   ISBN: 0-8186-2755-7
   Language: English
   Document Type: CA; (Conference Article)   Treatment: T; (Theoretical)
   Journal Announcement: 9306W3

   Abstract: A multidatabase system (MDBS) is a system that integrates the operational data of **several** autonomous **database** systems and provide a uniform interface and control mechanisms to control access to those data. To efficiently retrieve and manipulate the data stored in MDBS, a metadata dictionary is needed as a repository of essential information for reasoning, controlling, and maintaining the retrieval/manipulation processes. In this paper we developed a two-level active metadata dictionary approach based on logic for building a metadata dictionary, query processing, and maintenance in MDBS. The **low - level** metadata dictionaries (LLMDs) keep metadata for each corresponding local database in MDBS, respectively. The **high - level** metadata dictionary (HLMD) integrates the metadata about all LLMDs. The evaluation strategy is a top-down approach, start with consideration of a query as a global goal to be achieved. Unify the query with rules successively to decompose the goal into subgoals which can be evaluated against extensional database. Then **translate** these subgoals into corresponding queries against underlying DBMSs, respectively. The database integration strategy includes two phases: schema **translation** and schema integration. It is a bottom-up approach integrating schema from the underlying database schemas. Update may cause inconsistencies in MDBS. We use incremental integrity constraint checking to **preserve** consistency. The semantic **query** optimization evaluation can be partitioned into two phases: compilation phase and evaluation phase. During the compilation phase residues are computed and associated with deductive rules through partial subsumption algorithm. In evaluation phase, redundant residues are eliminated and then **translate** it into query against underlying DBMS. (Author abstract) Refs.
   Descriptors: *Distributed database systems; Algorithms
   Identifiers: Query processing; Dictionaries; Semantic query processing; Multidatabase systems; Metadata dictionaries; Integrity constraint checking ; Query optimization
   Classification Codes:
   723.3 (Database Systems); 723.1 (Computer Programming)
   723 (Computer Software)
   72 (COMPUTERS & DATA PROCESSING)

00817372   E.I. Monthly No: EI7905031584   E.I. Yearly No: EI79016940
   Title: CONVERSION   **OF**   HIGH - LEVEL   **SUBLANGUAGE**   QUERIES   **TO ACCOUNT**
FOR DATABASE **CHANGES**.
  Author: Su, Stanley Y. W.; Reynolds, Michael J.
  Corporate Source: Univ of Fla, Gainesville
  Source: AFIPS Conference Proceedings v 47, Anaheim, Calif, Jun 5-8 1978.
Publ by AFIPS, Montvale, NJ, 1978 p 857-875
  Publication Year: 1978
  CODEN: AFPGBT   ISSN: 0095-6880
  Language: ENGLISH
  Journal Announcement: 7905

  Abstract: The objectives of this investigation are as follows: (1) To
study the effects of all the **CONVERT** operators, (2) to design the
algorithms for collecting data from the input source to construct the data
tables to form the **translation** dictionary, (3) to study the techniques
for analyzing a limited yet general SEQUEL query pattern, and (4) to design
a **translation** algorithm in detail (i. e. , to the level of algorithm
description which is one step short of the actual coding) to support the
analysis and **translation** of queries. A description is given of **several**
types of **database** changes and illustration of the problems of sublanguage
query **conversion** with examples which involve the use of **CONVERT**
operators and SEQUEL's basic mappings. A **translation** process is then
detailed and an example of query **conversion** is provided to clarify and
illustrate the **translation** process step-by-step. 29 refs.
  Descriptors: *COMPUTER PROGRAMMING LANGUAGES; DATA BASE SYSTEMS
  Classification Codes:
  723 (Computer Software)
  72 (COMPUTERS & DATA PROCESSING)

01665068   ORDER NO: AADMQ-30577
KNOWLEDGE DISCOVERY IN INTERNET DATABASES
  Author: YU, XIAOBO
  Degree: M.SC.
  Year: 1998
  Corporate Source/Institution: THE UNIVERSITY OF REGINA (CANADA) (0148)
  Adviser: H. HAMILTON
  Source: VOLUME 37/01 of MASTERS ABSTRACTS.
           PAGE 9.   106 PAGES
  Descriptors: INFORMATION SCIENCE
  Descriptor Codes: 0723
  ISBN: 0-612-30577-5

     A major objective in knowledge discovery in Internet database research
is to support exploration and analysis of large amounts of data from
several   databases , each available via the Internet. This thesis
describes an approach to achieving this objective based on a multidatabase.
The multidatabase system provides a single front-end for **several**
autonomous, heterogeneous **database** management systems.
     A prototype software system, called KDID, has been developed to
perform discovery tasks on Internet databases. A discovery task is
decomposed into parameter for the task and a global **database   query** . The
global **query** is **translated** and decomposed into a set of local **database
  queries** , which are sent to Internet databases by database agents. KDID
standardizes and accumulates the results of the local **queries** in a single
 database called the multidatabase. Knowledge discovery is then performed
on the retrieved data by a discovery tool, DB-Discover, which performs
high   level , dynamic summarization and generalization of large amounts of
data.
     The approach is based on a global schema, which describes some related
data. The correspondence between this global schema and the individual
databases is maintained in a central registry. A registration subsystem is
included in KDID to register Internet databases. The subsystem interacts
with database administrators to obtain database schemas and integrate them
with the global schema.

2227484 NTIS Accession Number: PB2002-103674/XAB
  Role of High – Level **and** Low – level **Features in Semi-Automated Retrieval and Generation of Multimedia Presentations. Information Systems**
  Nack, F. M. ; Windhouwer, M. A. ; Pauwels, E. J. ; Huijberts, M. W. J. H. ; Hardman, H. L.

  Centrum voor Wiskunde en Informatica, Amsterdam (Netherlands).

  This document is color dependent and/or in landscape layout. It is currently only available on CD-ROM and in paper copy.

  Country of Publication: Netherlands

  In this article we argue that for the automatic generation of adaptive multimedia presentations we are in need of expandable, adaptable style descriptions which provide both **high – level** conceptual and **low – level** feature extraction information. Only the combination of both facilites the retrieval of adequate material and its user-centered presentation. We discuss the requirements for an adaptable Web-based environment for museums presenting visual artifacts. We then present the framework of our prototype **multimedia** generation environment which **transforms** a **high – level** user **query** into a concrete **multimedia** final-form encoding that is playable on an end-users' platform. We describe the underlying architecture and provide a working example.
  Descriptors: *Multimedia retrieval; Architecture; Extraction information; Semantics
  Identifiers: *Multimedia presentations; *Style descriptions; Presentation generation; Feature grammars; NTISTFNPO
  Section Headings: 62GE (Computers, Control, and Information Theory--General)

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                  OR LOCATING
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                  IMAGE?) OR MPEG? OR MPG? OR WAV OR VIDEO? OR AUDIO? OR SOUND-
                  ?)
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S4      898202    TRANSLAT? OR TRANSFORM? OR REFORMAT? OR CONVERT? OR CONVER-
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                  SEVERAL OR DIFFERENT?)(3N)(DATABASE? OR ENGINE? OR SEARCHENG-
                  INE? OR DB OR RDB OR DATA()(BANK? OR BASE?))
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                  OR CONSTRAINT? OR CONSTRUCT? OR TEMPLATE? OR CONCEPT?)
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                  DB OR DATA()(BASE? OR BANK?))(3N)(QUERY OR QUERIES OR SEARCH(-
                  )(STRING? OR STATEMENT? OR STEP OR STEPS))
S8          60    S2(S)S3(S)S4
S9          20    S8(S)(S6 OR S5 OR S7)
S10         85    S3(S)S4(S)S5(S)S6
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S15         20    IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2004/Dec W03
         (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20041230,UT=20041223
         (c) 2004 WIPO/Univentio
```

01024634   **Image available**
SYSTEM AND METHOD FOR MULTIMEDIA AUTHORING AND PLAYBACK
SYSTEME ET PROCEDE DE CREATION DE DIDACTICIELS MULTIMEDIA ET DE LECTURE
Patent Applicant/Assignee:
  COOLERNET INC, 90 Quail Avenue, Berkeley, CA 94708, US, US (Residence),
    US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  LAND Michael Z, 90 Quail Avenue, Berkeley, CA 94708, US, US (Residence),
    US (Nationality)
  MCCONNELL Peter N, 3373 Dwight Way, Berkeley, CA 94704, US, US
    (Residence), US (Nationality), (Designated only for: US)
  MCMAHON Michael J, 51 Bothin Road, Fairfax, CA 94930, US, US (Residence),
    US (Nationality), (Designated only for: US)
Legal Representative:
  SCHWAAB Andrew B (agent), Dergosits & Noah LLP, Four Embarcadero Center,
    San Francisco, CA 94111, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200354687 A1 20030703 (WO 0354687)
  Application: WO 2002US40623 20021218 (PCT/WO US0240623)
  Priority Application: WO 2001US50458 20011219; US 200127430 20011219
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK
  SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK
  TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 102575

Main International Patent Class: **G06F-003/14**
Fulltext Availability:
  Detailed Description

Detailed Description
... used in conjunction with HTML in Web applications and by proprietary
   scripting languages built into **many** high-end authoring systems (such as
   Macromedia Flash (V MX).

   Scripting methods operate at their...Wide Web allows separate pieces of
   multimedia content located on different computers and authored by
   different people to be connected together by including within one piece
   of multimedia content a reference...may also be effective. With the soft
   oval effect enabled, once the picture or recorded **video** is accepted by
   the user, the media data of the newly created object (302, ...authors
   great flexibility for arranging object playback in time, providing
   significant advantages over the timeline- **based** authoring paradigm of
   many existing systems.

   Fifth, for each function of the sentence paradigm which includes both a
   triggering...within the overall framework of network-based operations
   shown here in Figures 3 1A-B. **Several** features discussed throughout
   this specification may be used to such effect, and in some cases...
   various links among the database objects (indicated by the link lines
   4604) result in the **different   databases** being presented to the user
   as a single virtual hierarchy "rooted" at the container object...

00784131
A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A MULTI-OBJECT FETCH COMPONENT IN AN INFORMATION SERVICES PATTERNS ENVIRONMENT
SYSTEME, PROCEDE ET ARTICLE MANUFACTURE POUR COMPOSANT DE RECUPERATION MULTI-OBJET DANS UN ENVIRONNEMENT CARACTERISE PAR DES SERVICES D'INFORMATIONS
Patent Applicant/Assignee:
  ACCENTURE LLP, 1661 Page Mill Road, Palo Alto, CA 94304, US, US
    (Residence), US (Nationality)
Inventor(s):
  BOWMAN-AMUAH Michel K, 6426 Peak Vista Circle, Colorado Springs, CO 80918
    , US,
Legal Representative:
  HICKMAN Paul L (agent), Oppenheimer Wolff & Donnelly LLP, Suite 3800,
    2029 Century Park East, Los Angeles, CA 90067, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200116723 A2-A3 20010308 (WO 0116723)
  Application: WO 2000US24083 20000831 (PCT/WO US0024083)
  Priority Application: US 99386238 19990831
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GE
  GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
  MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN
  YU ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 150940

Main International Patent Class: **G06F-009/44**
International Patent Class: **G06F-009/46**

DIALOG(R)File 349:PCT FULLTEXT

00784125
SYSTEM, METHOD, AND ARTICLE OF MANUFACTURE FOR PIECEMEAL RETRIEVAL IN AN INFORMATION SERVICES PATTERNS ENVIRONMENT
SYSTEME, PROCEDE ET ARTICLE DE FABRICATION DESTINES A LA RECHERCHE FRAGMENTAIRE DANS UN ENVIRONNEMENT DE MODELES DE SERVICES D'INFORMATIONS
Patent Applicant/Assignee:
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Patent and Priority Information (Country, Number, Date):
  Patent: WO 200116705 A2-A3 20010308 (WO 0116705)
  Application: WO 2000US24085 20000831 (PCT/WO US0024085)
  Priority Application: US 99386433 19990831
Designated States:
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prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
  HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
  NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
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  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
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Publication Language: English
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Fulltext Word Count: 150355

Main International Patent Class: **G06F-009/44**
Fulltext Availability:
  Detailed Description

Detailed Description
... server publicly announcing its interfaces; Figure 75 illustrates a
  method including the registering and then **locating** of a globally
  addressable interface;
  9
  Figure 76 illustrates the present invention using a method...D virtual
  reality, video and other multimedia content. The tools use Internet
  standards, work on **multiple** platforms, and are being supported by over
  I 00 companies. The group's building blocks...

...architecture continues to grow and evolve. Engineering discoveries move
  the field forward. Certain design and **engineering** principles clearly
  show themselves to be successful in practice, and these then become
  repeatable components...buffer types: view to pass C structs, FML to pass
  anything, carrays to
  pass binary (**sound** , **video**), strings to pass strings
  FML allows dynamic messages to be sent/received
  Automatic error logging...information can be stored in the profile file
  for flexibility. In the future, if the **database** server name should
  change, this change only needs to be entered in the applications profile
  ...reports without the requirement of manual or user intervention
  (subsequent to initial set up and .**conversion**). '

  231
  . Scheduled Reports: The report architecture must support distribution of
  regularly scheduled reports. Typically, these...

...these reports without the requirement of manual or user intervention (subsequent to set up and **conversion**).

5. Online Preview: The report architecture should allow preview of reports online from a user...compression in the repository.

6. Code Page Compatibility: Code page compatibility must be considered when **translating** characters to ASCH.

Workflow services control and coordinate the tasks that must be completed in...

...PC to mainframe
The ability to interface with the host-based hardware, system software, and **database** management systems is critical. This is essential because the workflow system is located between the...of Capability Release Design and into Capability Release Build and Test 3610, Business Components are **transformed** into Partitioned Business Components based on the realities of the technical envirom-nent. These constraints...the requirements.

It would be logical to conclude that the two types of Business Components **translate** to two types of Partitioned Business Components, but a small adjustment is required. Entity-centric Business Components **translate** directly to Business Entity Components, but a closer look at the ways in which a...

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Set      Items      Description
S1     1083454      SEARCH? OR QUERY OR QUERIES OR MATCH? OR SEEK? OR LOCATE? -
                       OR LOCATING
S2       11323      S1(8N)(MULTIMEDIA? OR MULTI()MEDIA? OR MOVING()(PICTURE? OR
                       IMAGE?) OR MPEG? OR MPG? OR WAV OR VIDEO? OR AUDIO? OR SOUND-
                       ?)
S3       80547      (LOW OR HIGH)()LEVEL? OR HIGHLEVEL? OR LOWLEVEL?
S4     1384422      TRANSLAT? OR TRANSFORM? OR REFORMAT? OR CONVERT? OR CONVER-
                       SION? OR COMPILE?
S5       13192      (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR MANY OR
                       SEVERAL OR DIFFERENT?)(3N)(DATABASE? OR ENGINE? OR SEARCHENG-
                       INE? OR DB OR RDB OR DATA()(BANK? OR BASE?))
S6        6320      (LIBRAR? OR COLLECTION? OR GROUP? OR CLUSTER?)(3N)(MODULE?
                       OR CONSTRAINT? OR CONSTRUCT? OR TEMPLATE? OR CONCEPT?)
S7        1679      (SAVE? OR CACHE? OR PRESERV? OR DATABASE? OR DATABANK? OR -
                       DB OR DATA()(BASE? OR BANK?))(3N)(QUERY OR QUERIES OR SEARCH(-
                       )(STRING? OR STATEMENT? OR STEP OR STEPS)) .
S8          11      S2 AND S3 AND S4
S9           2      S2 AND S4 AND S5
S10          0      S2 AND S6 AND S7
S11          3      S2 AND S6
S12         47      S2 AND S7
S13         46      S1 AND S6 AND S7
S14          1      S13 AND S5
S15        109      S8:S14
S16         12      S15 AND IC=G06F-007/00
S17         55      S15 AND IC=G06F?
S18         32      S17 NOT AD=20010809:20030809
S19         32      S18 NOT AD=20030809:20050109
S20         32      IDPAT (sorted in duplicate/non-duplicate order)
S21         32      IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200482
         (c) 2004  Thomson Derwent
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DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

016672128   **Image available**
WPI Acc No: 2004-830848/200482
XRPX Acc No: N04-656285
  Collateral information provision method for video/ audio stream,
  involves generating database   queries **from events derived from**
  information stream, and analyzing query results for insertion in stream
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BROWN E W; CODEN A R
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6816858	B1	20041109	US 2000193910	P	20000331	200482	B
			US 2000218966	P	20000717		
			US 2000698894	A	20001027		

Priority Applications (No Type Date): US 2000698894 A 20001027; US
  2000193910 P 20000331; US 2000218966 P 20000717
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6816858	B1	20	G06F-017/30	Provisional application US 2000193910
				Provisional application US 2000218966

Abstract (Basic): US 6816858 B1
      NOVELTY - The method involves searching a database to identify set
  of documents that correspond to identified topic of text extracted from
  information stream, and documents that correspond to words found in the
  text. The documents are scored based on preset criteria, and ranked
  based on scores. The **database   queries** are generated from events
  derived from stream, and results are analyzed for insertion in stream.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
  following:
      (1) system for providing collateral information; and
      (2) computer readable medium storing program for providing
  collateral information.
      USE - For providing collateral information for video/audio stream
  such as news broadcast, live or recorded coverage of meeting or
  assembly.
      ADVANTAGE - Allows to add relevant collateral information to
  information stream.
      DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
  the Watson automatic stream analysis for broadcast information (WASABI)
  system.
      WASABI system (10)
      pp; 20 DwgNo 1/11
Title Terms: INFORMATION; PROVISION; METHOD; VIDEO; AUDIO; STREAM; GENERATE
  ; DATABASE; QUERY; EVENT; DERIVATIVE; INFORMATION; STREAM; QUERY; RESULT;
  INSERT; STREAM
Derwent Class: T01; W01; W02
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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015789217   **Image available**
WPI Acc No: 2003-851420/200379
Related WPI Acc No: 2003-832249
XRPX Acc No: N03-679944
   **Database searching method involves arranging initial object attribute set
   received in response to initial query in sequence and merging additional
   attribute set received in response to subsequent query with initial
   ordered set**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: DE JUDICIBUS D
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6651054	B1	20031118	US 2000696881	A	20001026	200379	B

Priority Applications (No Type Date): GB 9925741 A 19991030
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6651054	B1		14	G06F-017/30	

Abstract (Basic): US 6651054 B1
      NOVELTY - An initial set of objects having attributes satisfying an
   initial **query** submitted on a **database** is received, and ordered into
   a sequence for presenting to a user through an interface. A subsequent
   query providing different predicates than used in the initial query is
   submitted at a query point, and the corresponding additional object set
   is received to merge with the initial object set at the query point.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
   following:
      (1) database searching system; and
      (2) database searching program.
      USE - For interacting with a database containing **multimedia** data
   report to refine **database** **query** .
      ADVANTAGE - Enables a user to locally move around a specific object
   in a multi attribute type database space, according to one or more
   selected conditions and provides fine tuned result obtained in a
   report.
      DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of a
   database report interacting system.
      user input (38)
      natural language interface (40)
      result merger object (42)
      renderer (44)
      navigator (46)
      structured query language (SQL) generator (56)
      pp; 14 DwgNo 3/10
Title Terms: DATABASE; SEARCH; METHOD; ARRANGE; INITIAL; OBJECT; ATTRIBUTE;
  SET; RECEIVE; RESPOND; INITIAL; QUERY; SEQUENCE; MERGE; ADD; ATTRIBUTE;
  SET; RECEIVE; RESPOND; SUBSEQUENT; QUERY; INITIAL; ORDER; SET
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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014704069   **Image available**
WPI Acc No: 2002-524773/200256
XRPX Acc No: N02-415630
    Multimedia **information retrieval device** searches   multimedia
  information based on result of similarity evaluation of search **string**
  with multimedia **information**
Patent Assignee: CANON KK (CANO)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 2002175329 A   20020621 JP 2000373242   A   20001207 200256 B

Priority Applications (No Type Date): JP 2000373242 A 20001207
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 2002175329 A   23 G06F-017/30

Abstract (Basic): JP 2002175329 A
      NOVELTY - A **search** unit searches the **multimedia** information in
  a **database** using a **search**   **string** based on result of similarity
  evaluation of the **search** string with the **multimedia** information.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
  following:
      (1) Information retrieval method; and
      (2) Computer readable storage medium storing information retrieval
  program.
      USE - For retrieval of multimedia information.
      ADVANTAGE - The suitable **multimedia** information is retrieved
  according to the **search** requisition designed by the operator.
      DESCRIPTION OF DRAWING(S) - The figure shows the flowchart
  illustrating the document search process. (Drawing includes non-English
  language text).
      pp; 23 DwgNo 9/15
Title Terms: INFORMATION; RETRIEVAL; DEVICE; SEARCH; INFORMATION; BASED;
  RESULT; SIMILAR; EVALUATE; SEARCH; STRING; INFORMATION
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

014368397   **Image available**
WPI Acc No: 2002-189099/200225
XRPX Acc No: N02-143251
    Query **preparation and rendering for procuring information from**
  multimedia **databases involves** searching **information from** database
  through query **that is based on descriptor of digitized data**
Patent Assignee: RUGE I (RUGE-I)
Inventor: HERRMANN S; RUGE I; STECHELE W
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 10011297	A1	20010927	DE 1011297	A	20000308	200225	B
DE 10011297	C2	20020307	DE 1011297	A	20000308	200225	

Priority Applications (No Type Date): DE 1011297 A 20000308
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 10011297	A1		10	G06F-017/30	
DE 10011297	C2			G06F-017/30	

Abstract (Basic): DE 10011297 A1
    NOVELTY - Either or both video and audio data are digitized and
  their characteristics extracted using a suitable analysis algorithm to
  obtain at least one descriptor which is sent to a database. The
  database is searched for information through an query based on the
  descriptor.
    DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an
  electronic storage medium containing program code for performing the
  method.
    USE - For procuring multimedia information from databases e.g.
  tourist information, holiday photos, medical expert systems, and person
  identification for crime investigation.
    ADVANTAGE - Enables preparation of query in comfortable and
  efficient manner for use by formulating textual description for user
  and directly sends textual description to database, eliminating need
  for user to identify for himself object features and properties and
  enabling more complex properties and features of object to be
  characterized.
    DESCRIPTION OF DRAWING(S) - The figure is the flowchart of the
  inquiry preparation and rendering method. (Drawing includes non-English
  language text).
    pp; 10 DwgNo 1/1
Title Terms: QUERY; PREPARATION; RENDER; INFORMATION; SEARCH; INFORMATION;
  DATABASE; THROUGH; QUERY; BASED; DESCRIBE; DATA
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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014309285   **Image available**
WPI Acc No: 2002-129988/200217
XRPX Acc No: N02-098041
  Data search and retrieval method for flexible image database system,
  involves pruning each triangle related to selected distance measure,
  between each key object and query object
Patent Assignee: BERMAN A P (BERM-I)
Inventor: BERMAN A P
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 20020002550 A1   20020103 US 2000181607   P   20000210 200217 B
                                US 2001779019   A   20010207

Priority Applications (No Type Date): US 2000181607 P 20000210; US
   2001779019 A 20010207
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 20020002550 A1   26 G06F-007/00   Provisional application US 2000181607

Abstract (Basic): US 20020002550 A1
      NOVELTY - A relational vector that represents a distance measure
   between each key object and selected query object, is determined by an
   user. Each triangle related to the selected distance measure, is pruned
   so that the data object which do not match the query object within a
   defined limit, are removed. The data objects that are not removed, are
   compared with query data object within defined limit.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
   following
      (a) Article of manufacture for use with computer, to identify data
   objects that match with query data object;
      (b) Image data search and retrieval system;
      (c) Method for reducing number of direct comparisons required to
   identify matching data object
      USE - For **search** and retrieval of data objects such as image,
   sound , video, multimedia, text, spread-sheets etc in flexible image
   database system.
      ADVANTAGE - Increases efficiency in large database environments and
   reduces number of direct comparisons required to identify data objects
   that match a query object. Exhibits speed, flexibility and accuracy in
   implementing a **query** of **database** and also improves computational
   efficiency.
      DESCRIPTION OF DRAWING(S) - The figure shows a graphical
   illustration of two levels of a triangle.
      pp; 26 DwgNo 1/11
Title Terms: DATA; SEARCH; RETRIEVAL; METHOD; FLEXIBLE; IMAGE; DATABASE;
   SYSTEM; PRUNE; TRIANGLE; RELATED; SELECT; DISTANCE; MEASURE; KEY; OBJECT;
   QUERY; OBJECT
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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014111293   **Image available**
WPI Acc No: 2001-595505/200167
Related WPI Acc No: 1999-610501
XRPX Acc No: N01-443792
  Database information categorization using intelligent query **engine,
  involves displaying information** clustered **around central** concepts **in
  vector spaces**
Patent Assignee: WEBMD CORP (WEBM-N)
Inventor: BURKE S M; HAZLEHURST B L; NYBAKKEN K E
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6289353	B1	20010911	US 97936354	A	19970924	200167	B
			US 99329657	A	19990610		

Priority Applications (No Type Date): US 97936354 A 19970924; US 99329657 A
  19990610
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6289353	B1		41	G06F-017/00	Cont of application US 97936354
					Cont of patent US 5974412

Abstract (Basic): US 6289353 B1
      NOVELTY - Information is converted into different vector spaces and
  central concepts are identified in the vector spaces. Information
  clustered around the identified **concepts** are displayed to a user
  through a graphical user interface.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
  following:
      (a) Information retrieval and categorization system;
      (b) **Search** engine for identifying information responsive to user
  queries ;
      (c) Method for categorizing user in an information retrieval system
      USE - For categorizing information in **database** through
  intelligent **query** engine, for use by medical and other domain
  experts.
      ADVANTAGE - Automatically indexes large quantities of documents and
  facilitates implementation of a highly distributed system of
  asynchronously communicating liaisons and collators.
      DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of
  processing **queries** by a collator.
      pp; 41 DwgNo 15B/25
Title Terms: DATABASE; INFORMATION; INTELLIGENCE; **QUERY** ; ENGINE; DISPLAY;
  INFORMATION; CLUSTER; CENTRAL; CONCEPT; VECTOR; SPACE
Derwent Class: T01
International Patent Class (Main): **G06F-017/00**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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013997839
WPI Acc No: 2001-482054/200152
XRPX Acc No: N01-356762
     Query **theme identification in** database **library, involves determining
  composite theme scores of data records which are compared with threshold,
  to select query theme associated with search query**
Patent Assignee: BIGCHALK.COM INC (BIGC-N)
Inventor: SCHULTZ J M
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 6208988   B1   20010327 US 9888188   A   19980601 200152 B

Priority Applications (No Type Date): US 9888188 A 19980601
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 6208988   B1   20 G06F-017/21

Abstract (Basic): US 6208988 B1
     NOVELTY - An archive has document record with metadata field to
  store numerical score representing correlation degree between stored
  document and document theme. Composite theme score is estimated for
  each document theme in document records in result list. Composite theme
  scores are compared with threshold to identify major theme score and
  the associated document theme is selected as query theme.
     DETAILED DESCRIPTION - Each of the document records are associated
  with stored document. The numerical score represents a degree of
  correlation between stored document and a document theme. The document
  theme corresponds to subject, person or place associated with stored
  document. A result list formed of one's of the document record, is
  retrieved in response to search query. The document records in the
  result list is associated with search query.
     USE - For identifying documents and themes such as person, place,
  subject, corresponding to search topic or **query** . For identifying and
  retrieving text and **multimedia** files related to **search** topic from
  database library.
     ADVANTAGE - Provides a document searching system which not only
  returns a list of relevant information to the user based on query
  search, but also returns the information to user in such a form that
  the user can readily identify which information returned from search is
  most relevant to query topic.
     pp; 20 DwgNo 0/6
Title Terms: QUERY; THEME; IDENTIFY; DATABASE; LIBRARY; DETERMINE;
  COMPOSITE; THEME; SCORE; DATA; RECORD; COMPARE; THRESHOLD; SELECT; QUERY;
  THEME; ASSOCIATE; SEARCH; QUERY
Derwent Class: T01
International Patent Class (Main): **G06F-017/21**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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013912793   **Image available**
WPI Acc No: 2001-397006/200142
XRPX Acc No: N01-292512
  **Audio data feature description method involves representing audio
  features hierarchically by setting audio program**
Patent Assignee: DAINI DENDEN KK (DAIN-N); KATO H (KATO-I); NAKAJIMA Y
  (NAKA-I); SUGANO M (SUGA-I); YANAGIHARA H (YANA-I); YONEYAMA A (YONE-I)
Inventor: KATO H; NAKAJIMA Y; SUGANO M; YANAGIHARA H; YONEYAMA A
Number of Countries: 002 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20010003813	A1	20010614	US 2000730607	A	20001207	200142	B
JP 2001167557	A	20010622	JP 99349147	A	19991208	200151	
JP 2001167109	A	20010622	JP 99349148	A	19991208	200151	

Priority Applications (No Type Date): JP 99349148 A 19991208; JP 99349147 A
  19991208
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20010003813	A1		24	G10L-019/00	
JP 2001167557	A		10	G11B-027/00	
JP 2001167109	A		13	G06F-017/30	

Abstract (Basic): US 20010003813 A1
      NOVELTY - The audio features are hierarchically represented by
  setting the audio program (a) and are described in sequence from
  highest hierarchy to the lowest hierarchy. The entire audio data
  constructs one audio program which includes the audio features such as
  audio scene or audio shot.
      DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
  compressed or uncompressed audio video data feature description
  collection   construction method.
      USE - For describing the features of compressed and uncompressed
  audio data.
      ADVANTAGE - The **audio** data in the **audio** program is efficiently
  searched with high speed based on the hierarchical order of audio
  features of audio program. The audio video features are collected
  efficiently for multiple audio video programs according to the specific
  feature describing the feature description collection.
      DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
  compressed and uncompressed audio data features description.
      Audio program (a)
      pp; 24 DwgNo 1/22
Title Terms: AUDIO; DATA; FEATURE; DESCRIBE; METHOD; REPRESENT; AUDIO;
  FEATURE; HIERARCHY; SET; AUDIO; PROGRAM
Derwent Class: P86; T01; W04
International Patent Class (Main): **G06F-017/30** ; G10L-019/00; G11B-027/00
International Patent Class (Additional): G10L-013/00; G10L-021/06;
  G11B-020/12; G11B-027/10
File Segment: EPI; EngPI

012470471   **Image available**
WPI Acc No: 1999-276579/199923
XRPX Acc No: N99-207323
   **Computer program product for retrieving multimedia objects such as still
   image, audio, video graphics etc using natural language such as English -
   stores program based on which agent role, action role and patient role
   are assigned corresponding to recognised syntactic and semantic structure
   of received query, to permit search of database**
Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: BHANDARI A; JANISZEWSKI M E; MEHROTRA R
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5895464	A	19990420	US 97848207	A	19970430	199923 B

Priority Applications (No Type Date): US 97848207 A 19970430
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5895464	A		12	G06F-017/30	

Abstract (Basic): US 5895464 A
   NOVELTY - Based on recognition of syntactic and semantic structure
of received query, agent role that indicates an actor role who is
performing action, an action role that identifies activity and patient
role that identifies object affected by the action are assigned for
permitting **searching** of multimedia object **database** to generate
query response. DETAILED DESCRIPTION - In computer readable storage
medium, program for retrieving **multimedia** objects is stored. Based on
the stored program **query** in natural language for searching database
is received and syntactic and semantic structure of query is
recognized. Magnetic storage medium such as floppy disc or magnetic
tape, or optical storage medium such as optical disc, optical tape or
RAM or ROM, is used as storage medium. An INDEPENDENT CLAIM is included
for describing retrieval method of multimedia object using natural
language.
   USE - For retrieving multimedia objects such as still image, audio,
video graphics, computer generated graphics, drawings and associated
description using natural language such as English. The computer
program product uses text input for speech input or input from
communication or multimedia capture storage devices such as still
camera, video camera and video phone.
   ADVANTAGE - Provides archival and retrieval system free of grammar
restrictions so that syntactic and semantic formalities in search query
are recognized and utilized by simple technique. Offers efficient and
user-friendly system for input of information into database by
requiring minimal interaction from user. DESCRIPTION OF DRAWING(S) -
The figure depicts flow chart of software program for input of data
using natural language.
   Dwg.4/6
Title Terms: COMPUTER; PROGRAM; PRODUCT; RETRIEVAL; OBJECT; STILL; IMAGE;
   AUDIO; VIDEO; GRAPHIC; NATURAL; LANGUAGE; ENGLISH; STORAGE; PROGRAM;
   BASED; AGENT; ROLE; ACTION; ROLE; PATIENT; ROLE; ASSIGN; CORRESPOND;
   RECOGNISE; SYNTACTIC; STRUCTURE; RECEIVE; QUERY; PERMIT; SEARCH; DATABASE
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

012448060   **Image available**
WPI Acc No: 1999-254168/199921
XRPX Acc No: N99-189251
   Method for constructing database   query **from intuitive browser driven
   user interface**
Patent Assignee: SILICON GRAPHICS INC (SILI-N)
Inventor: MALLEY C V; POON A D; WEBER K A
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5893110	A	19990406	US 96698649	A	19960816	199921	B

Priority Applications (No Type Date): US 96698649 A 19960816
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5893110	A		11	G06F-017/30	

Abstract (Basic): US 5893110 A
       NOVELTY - A **database   query** is generated automatically based on
   the available data components associated with the contents of
   particular point of interest. The user has the option to constrain the
   database search by selecting one or more attributes from the available
   list and further by adding keywords to keyword entry field.
       DETAILED DESCRIPTION - A list of available multimedia work is
   presented to the user for enabling the user to select a multimedia work
   from the available list. The selected multimedia work is made to run
   with the associated buttons provided. The selected multimedia work is
   stopped at a particular point of interest upon the input from user. A
   database   query is generated automatically associated with the point
   of interest. The list of attributes are displayed by using icons
   wherein icons representing available data elements are highlighted and
   icons representing unavailable data elements are un-highlighted. The
   list of data elements are presented to the user in real time while
   selected multimedia work is running.
       USE - For constructing **database   query** from intuitive browser
   driven user interface for **multimedia** works comprising interactive
   movies, video games and other entertainment and educational type of
   content that run on personal computer system, dedicated game consoles
   and kiosk machines.
       ADVANTAGE - Allows user to constrain database search by providing a
   list of attributes of data associated with the point of interest before
   the search is performed.
       DESCRIPTION OF DRAWING(S) - The figure shows the flow chart
   explaining the method for constructing **database   query** from an
   intuitive browser driven user interface.
       pp; 11 DwgNo 3/4
Title Terms: METHOD; CONSTRUCTION; DATABASE; QUERY; DRIVE; USER; INTERFACE
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

011644977   **Image available**
WPI Acc No: 1998-061885/199806
XRPX Acc No: N98-048689
  Index of video data   base **and** query **method and system - includes**
  processor to build video **clip index, transfer** video   query **into**
  string and carry out video **inquiry**
Patent Assignee: IND TECHNOLOGY RES INST (INTE-N)
Inventor: CHEN L; LIOU J; NI J; YANG S; YUH J
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
TW 316962	A	19971001	TW 96104458	A	19960412	199806	B

Priority Applications (No Type Date): TW 96104458 A 19960412
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
TW 316962	A		62	G06F-015/40	

Abstract (Basic): TW 316962 A
      An index of **video** **data** **base** and **query** method which can find
   video frame **matched** with **query** condition from **video** **data**
   base involves initially verifying one or several icons of every frame
   in clip, and then deciding horizontal, vertical and time coordinates of
   one or several defined icon. An index is then built for each defined
   symbol of icon on the above coordinate.
      A **video** **query** command is received from the user, and this
   command must point the related relation among horizontal, vertical and
   time coordinates of the icon appearing in inquired the video frame. A
   3-D string of icons is indicated according to the **video** **query**
   command, with this 3-D string indicating the distance between every
   symbol of every icon on the horizontal, vertical and temporal
   coordinate; followed by comparing the characteristic of **query** command
   and **video** clip stored in **video** data base to find all **video** clips
   characteristic, which includes **video** clip of **query** command
   signature. A **video** clip is then found according to the comparison of
   the **query** command and the stored **video** clip, with building of the
   1-D list of horizontal, vertical and temporal direction, this 1-D list
   including several symbols, which must be included in the query command
   signature, and each symbol in 1-D list must match the query condition
   in related direction. An intersection is taken from the 1-D list in the
   horizontal, vertical and temporal direction, and if the intersection is
   non-zero, then this video clip satisfies the inquiry condition.
      Dwg.1/18
Title Terms: INDEX; VIDEO; DATA; BASE; QUERY; METHOD; SYSTEM; PROCESSOR;
  BUILD; VIDEO; CLIP; INDEX; TRANSFER; VIDEO; QUERY; STRING; CARRY; VIDEO;
  ENQUIRY
Derwent Class: T01
International Patent Class (Main): **G06F-015/40**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

009467368   **Image available**
WPI Acc No: 1993-160907/199320
XRPX Acc No: N93-123487
   Information storage and access system using query **language statements -**
   translates compositional descriptions into database   queries **to enable**
   information matching **of compositional descriptions**
Patent Assignee: AMERICAN TELEPHONE & TELEGRAPH CO (AMTT); AT & T CORP
   (AMTT)
Inventor: BORGIDA A T; BRACHMAN R J
Number of Countries: 006 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 542430	A2	19930519	EP 92309447	A	19921016	199320	B
CA 2079285	A	19930424	CA 2079285	A	19920928	199327	
EP 542430	A3	19930825	EP 92309447	A	19921016	199508	
US 5418943	A	19950523	US 91781464	A	19911023	199526	

Priority Applications (No Type Date): US 91781464 A 19911023
Cited Patents: No-SR.Pub; 3.Jnl.Ref
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 542430	A2	E	16	G06F-015/403	

   Designated States (Regional): DE FR GB IT

US 5418943	A		15	G06F-015/40	
CA 2079285	A			G06F-015/403	
EP 542430	A3			G06F-015/403	

Abstract (Basic): EP 542430 A
     The storage and access system employs compositional descriptions
  (103) which describe information in terms of concepts. A translation
  component (117) translates compositional descriptions into **data   base**
   queries so that information **matching** a compositional description
  may be retrieved from the data base.
     The translation component further permits display of the retrieved
  data in terms of the compositional descriptions. The returned
  information can be automatically integrated into a knowledge base
  (107), either item by item or on the basis of the compositional
  description which was used to return the information.
     USE/ADVANTAGE - Database management systems. Provides improved
  access to stored information.
     Dwg.1/10
Title Terms: INFORMATION; STORAGE; ACCESS; SYSTEM; **QUERY** ; LANGUAGE;
  STATEMENT; TRANSLATION; COMPOSITION; DESCRIBE; DATABASE; **QUERY** ; ENABLE;
  INFORMATION; **MATCH** ; COMPOSITION; DESCRIBE
Derwent Class: T01
International Patent Class (Main): **G06F-015/403**
International Patent Class (Additional): **G06F-015/40**
File Segment: EPI

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Set       Items    Description
S1         2753    AU=(CHANG Y? OR CHANG, Y?)
S2         3301    AU=(LI C? OR LI, C?)
S3            8    AU=(NATSEV A? OR NATSEV, A?)
S4         5001    AU=(SMITH J? OR SMITH, J?)
S5            1    S1 AND S2 AND S3 AND S4
S6           40    (S1 OR S2 OR S3 OR S4) AND IC=G06F-007/00
S7           12    S6 AND (LEVEL? OR MULTIMEDIA? OR MULTI()MEDIA? OR VIDEO? OR
                   AUDIO? OR SOUND? OR MOVING()PICTURE?)
S8           12    IDPAT (sorted in duplicate/non-duplicate order)
S9           12    S5 OR S8
File 344:Chinese Patents Abs Aug 1985-2004/May
         (c) 2004 European Patent Office
File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)
         (c) 2004 JPO & JAPIO
File 348:EUROPEAN PATENTS 1978-2004/Dec W03
         (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20041230,UT=20041223
         (c) 2004 WIPO/Univentio
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200482
         (c) 2004  Thomson Derwent
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DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00565094   **Image available**
IMAGE DESCRIPTION SYSTEM AND METHOD
SYSTEME ET PROCEDE DE DESCRIPTION D'IMAGES
Patent Applicant/Assignee:
  THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK,
  AT & T,
  IBM,
  EASTMAN KODAK,
  PAEK Seungyup,
  BENITEZ Ana,
  CHANG Shih-Fu,
  LI Chung-Sheng,
  SMITH John R,
  BERGMAN Lawrence D,
  PURI Atul,
  HUANG Qian,
  JUDICE Charlie,
Inventor(s):
  PAEK Seungyup,
  BENITEZ Ana,
  CHANG Shih-Fu,
   LI Chung-Sheng ,
   SMITH John R ,
  BERGMAN Lawrence D,
  PURI Atul,
  HUANG Qian,
  JUDICE Charlie
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200028467 A1 20000518 (WO 0028467)
  Application: WO 99US26127 19991105 (PCT/WO US9926127)
  Priority Application: US 98107463 19981106; US 99118020 19990201; US
     99118027 19990201
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
  GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
  MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
  UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD
  RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF
  CG CI CM GA GN GW ML MR NE SN TD TG
Main International Patent Class: G06K-009/00
International Patent Class: G06K-009/34; G06K-009/46; G06K-009/56;
  G06K-009/36; G06K-009/60; G06F-003/00; G09C-005/00; H04N-007/12;
  G06F-007/00 ; G06F-015/00
Publication Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 15002

English Abstract
  Systems and methods for describing image content establish image
  description records which include an object set (24), an object hierarchy
  (26) and entity relation graphs (28). For image content, image objects
  can include global objects (OO 8) and local objects (O1 2 and O2 6). The
  image objects are further defined by a number of features of different
  classes (36, 38 and 40), which in turn are further defined by a number of
  feature descriptors. The relationships between and among the objects in
  the object set are defined by the object hierarchy (26) and entity
  relation graphs (28). The image description records provide a standard
  vehicle for describing the content and context of image information for
  subsequent access and processing by computer applications such as search
  engines, filters, and archive systems.

French Abstract
Selon cette invention, des systemes et des procedes de description du contenu d'une image etablissent des rapports de description d'images qui comprennent un ensemble d'objets (24), une hierarchie d'objets (26) et des graphes entite-relation (28). En ce qui concerne le contenu d'une image, les objets image peuvent comprendre des objets globaux (OO8) et des objets locaux (O1 2 et O 2 6). Les objets image sont en outre definis par un certain nombre de parametres de classes differentes (36, 38 et 40), lesdits parametres etant definis a leur tour par un certain nombre de descripteurs de parametres. Les relations entre les objets faisant partie d'un ensemble d'objets sont definies par la hierarchie (26) des objets et les graphes entite-relation (28). Les rapports de description d'images constituent un vehicule standard servant a la description du contenu et du contexte des informations image a des fins d'acces et de traitement ulterieur par des applications informatiques telles que les moteurs de recherche, les filtres et les systemes d'archivage.

9/5/3   (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

016672184   **Image available**
WPI Acc No: 2004-830904/200482
XRPX Acc No: N04-656340
  Precedence template descriptor generation method for classifying and
  querying image/ video content, involves ordering content symbols based
  on their relationships to each other in content and evaluating ordering
  of content symbols
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: **LI C ; SMITH J R**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6819797	B1	20041116	US 99117906	P	19990129	200482	B
			US 2000493879	A	20000128		

Priority Applications (No Type Date): US 99117906 P 19990129; US 2000493879
  A 20000128
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6819797	B1		11	G06K-009/00	Provisional application US 99117906

Abstract (Basic): US 6819797 B1
      NOVELTY - The content symbols are assigned to each media content
  component. The content symbols are ordered based on their relationships
  to each other in the media content. The media content are classified
  based on the comparison of the content relationship values that are
  assigned based on determined frequency, while evaluating the ordering
  of content symbols.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
  following:
      (1) system for providing descriptors for media content;
      (2) program storage device for storing descriptor generation
  program; and
      (3) descriptor.
      USE - For generating precedence template (PT) descriptor (claimed)
  used in content-based query system for classifying or annotating and
  querying image/ **video** content.
      ADVANTAGE - Allows fast matching of images in graphical querying.
  The PT descriptors provides a robust way to compare the spatial
  arrangement of image regions/objects and to measure similarity in the
  presence of insertions, deletions, substitutions, replications and
  reallocations of events, actions, regions or object by capturing the
  spatial and temporal relationships.
      DESCRIPTION OF DRAWING(S) - The figure shows the explanatory view
  of the generation of the PT descriptor matrix.
      pp; 11 DwgNo 4/5
Title Terms: PRECEDE; TEMPLATE; DESCRIBE; GENERATE; METHOD; CLASSIFY; IMAGE
  ; **VIDEO** ; CONTENT; ORDER; CONTENT; SYMBOL; BASED; RELATED; CONTENT;
  EVALUATE; ORDER; CONTENT; SYMBOL
Derwent Class: T01
International Patent Class (Main): G06K-009/00
International Patent Class (Additional): **G06F-007/00** ; G06F-017/30;
  G06K-009/34; G06K-009/54; G06K-009/60
File Segment: EPI

9/5/5   (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

016320784   **Image available**
WPI Acc No: 2004-478679/200445
XRPX Acc No: N04-377375
    Multimedia -content representation method involves identifying semantic
  based on generic cues identified from extracted features of content,
  based on which model for multimedia -content is generated
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: ADAMS H W; IYENGAR G; LIN C; NAPHADE M R; NETI C V; NOCK H J;
  SMITH J R ; TSENG B L
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind Date   Applicat No   Kind   Date   Week
US 20040111432 A1   20040610 US 2002315334 A   20021210 200445 B

Priority Applications (No Type Date): US 2002315334 A 20021210
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 20040111432 A1   12 G06F-017/00

Abstract (Basic): US 20040111432 A1
        NOVELTY - The features of the multimedia content containing
  audio , visual and textual modalities are extracted, based on which one
  or more generic cues are identified. A semantic is identified based on
  a combination of the generic cues, and a model for the multimedia
  content is generated based on the identified semantic.
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
  following:
        (1) computer program product in computer readable medium for
  representing multimedia content;
        (2) multimedia -content representing apparatus;
        (3) multimedia -content searching method; and
        (4) computer program product in computer readable medium for
  searching multimedia -content.
        USE - For representing multimedia -content containing audio ,
  visual and textual cues.
        ADVANTAGE - Enables to automatically analyze multimedia -content
  and represent in terms of high level semantics.
        DESCRIPTION OF DRAWING(S) - The figure shows a flowchart explaining
  the operation of generating semantic representation of multimedia
  content.
        pp; 12 DwgNo 4/7
Title Terms: CONTENT; REPRESENT; METHOD; IDENTIFY; BASED; CUE; IDENTIFY;
  EXTRACT; FEATURE; CONTENT; BASED; MODEL; CONTENT; GENERATE
Derwent Class: T01
International Patent Class (Main): G06F-017/00
International Patent Class (Additional): G06F-007/00
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015492422   **Image available**
WPI Acc No: 2003-554569/200352
XRPX Acc No: N03-440366
   Multimedia content source description method for TV news application,
  involves generating info pyramid representation of each modality and
  annotations for each multimedia object, repeatedly until every terminal
  node is processed
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BERGMAN L D; KIM M Y Y; LI C ; MOHAN R; SMITH J R
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 6564263   B1   20030513 US 98110902   P   19981204 200352 B
                             US 99456031   A   19991203

Priority Applications (No Type Date): US 98110902 P 19981204; US 99456031 A
  19991203   .
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 6564263   B1   32 G06F-007/00   Provisional application US 98110902
Abstract (Basic): US 6564263 B1
     NOVELTY - A modality-fidelity dependency graph including a
  description scheme, is generated for each terminal node of multimedia
  content source after selecting target modalities and fidelities based
  on distribution analysis. An info pyramid representation of each
  modality and annotations for each object in multimedia content source
  are generated repeatedly until every terminal node is processed.
     DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
  multimedia content creation method.
     USE - For describing multimedia content for web image search
  engine, satellite image retrieval system, Television(TV) news
  application.
     ADVANTAGE - Describes effectively multiple modalities/multiple
  fidelities nature of multimedia content, spatial and temporal
  characteristics among multiple objects, and streams and aggregations of
  multimedia objects.
     DESCRIPTION OF DRAWING(S) - The figure shows the block diagram
  illustrating description scheme for multimedia content description
  framework.
     pp; 32 DwgNo 3/19
Title Terms: CONTENT; SOURCE; DESCRIBE; METHOD; TELEVISION; NEWS; APPLY;
  GENERATE; PYRAMID; REPRESENT; OBJECT; REPEAT; TERMINAL; NODE; PROCESS
Derwent Class: T01
International Patent Class (Main): G06F-007/00
International Patent Class (Additional): G06F-015/00; G06F-015/16;
  G06F-017/30
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015357591   **Image available**
WPI Acc No: 2003-418529/200339
XRPX Acc No: N03-333926
   Multimedia **data query method for application domain, involves
   transferring low** level **queries to low** level **having search engines
   which perform query of stored** multimedia **information using low** level
   queries
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: **CHANG Y ; LI C ; NATSEV A I ; SMITH J R**
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 20030041047 A1   20030227 US 2001925397   A   20010809 200339 B

Priority Applications (No Type Date): US 2001925397.A 20010809
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 20030041047 A1   18 G06F-007/00

Abstract (Basic): US 20030041047 A1
     NOVELTY - A high **level** concept describing data to be retrieved,
  is received from a user into an intermediate **level** . The high **level**
  concept is translated into low **level** queries by using system
  predefined high **level** concepts, in the intermediate **level** . The low
  level queries are transferred to a low **level** having one or more
  search engines that performs a query of the stored **multimedia**
  information using the low **level** queries.
     DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
  program storage device.
     USE - For application domains.
     ADVANTAGE - Enables high **level** querying of **multimedia** data by
  imposing arbitrary domain specific constraints among **multimedia**
  objects.
     DESCRIPTION OF DRAWING(S) - The figure shows the overview of the
  multimedia data query method.
     pp; 18 DwgNo 1/6
Title Terms: DATA; QUERY; METHOD; APPLY; DOMAIN; TRANSFER; LOW; **LEVEL** ;
  QUERY; LOW; **LEVEL** ; SEARCH; ENGINE; PERFORMANCE; QUERY; STORAGE;
  INFORMATION; LOW; **LEVEL** ; QUERY
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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014821931   **Image available**
WPI Acc No: 2002-642637/200269
Related WPI Acc No: 2004-387423
XRPX Acc No: N02-507968
   **Data transmission control apparatus for environmental information
   gathering system, transmits prioritized physical parameter data to base
   station which provides progressive feedback corresponding to subsequent
   processing**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BERGMAN L D; **CHANG Y ; LI C ; SMITH J R**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020099689	A1	20020725	US 2001263026	P	20010119	200269	B
			US 2001263039	P	20010119		
			US 200247863	A	20020116		

Priority Applications (No Type Date): US 200247863 A 20020116; US
   2001263026 P 20010119; US 2001263039 P 20010119
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020099689	A1		10	G06F-007/00	Provisional application US 2001263026
					Provisional application US 2001263039

Abstract (Basic): US 20020099689 A1
     NOVELTY - A progressive decision support module (204) directs a
   controller to obtain data defining physical parameters such as **sound** ,
   temperature in an area of interest and assigns a transmission priority
   to the data. A transmitter (206) transmits a prioritized data to a base
   station (203) which provides progressive feedback to the decision
   module to adjust the priority corresponding to subsequent processing.
     DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for data
   transmission control method.
     USE - For transmission of physical parameter data such as **sound** ,
   temperature, moisture, light sensed using data gathering satellite,
   weather station environmental satellite in distributed environmental
   information gathering system, for detecting environmental hazards e.g.
   forest fire.
     ADVANTAGE - Enables decision maker to highly utilize the physical
   parameters by combined optimization of progressive data representation
   and transmission. Enables suitable selection of the physical parameters
   which provide most useful information with reduced measurement errors,
   thereby increasing accuracy.
     DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram
   illustrating the operation of decision support system.
     Base station (203)
     Progressive decision support module (204)
     Transmitter (206)
     pp; 10 DwgNo 2/4
Title Terms: DATA; TRANSMISSION; CONTROL; APPARATUS; ENVIRONMENT;
   INFORMATION; GATHER; SYSTEM; TRANSMIT; PHYSICAL; PARAMETER; DATA; BASE;
   STATION; PROGRESS; FEEDBACK; CORRESPOND; SUBSEQUENT; PROCESS
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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013269730   **Image available**
WPI Acc No: 2000-441636/200038
Related WPI Acc No: 2000-376696; 2000-430880; 2000-686540
XRPX Acc No: N00-329584
  Image description system used for generating description record from image information
Patent Assignee: AT & T (AMTT); EASTMAN KODAK CO (EAST); IBM CORP (IBMC); UNIV COLUMBIA NEW YORK (UYCO)
Inventor: BENITEZ A; BERGMAN L D; CHANG S; HUANG Q; JUDICE C; **LI C** ; PAEK S; PURI A; **SMITH J R**
Number of Countries: 091 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200028467	A1	20000518	WO 99US26127	A	19991105	200038	B
AU 200012434	A	20000529	AU 200012434	A	19991105	200041	
EP 1125245	A1	20010822	EP 99971950	A	19991105	200149	
			WO 99US26127	A	19991105		
JP 2002529863	W	20020910	WO 99US26127	A	19991105	200274	
			JP 2000581582	A	19991105		

Priority Applications (No Type Date): US 99118027 P 19990201; US 98107463 P 19981106; US 99118020 P 19990201
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
WO 200028467 A1 E   79 G06K-009/00
   Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
   CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
   KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
   SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
   Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
   IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW
AU 200012434 A   G06K-009/00   Based on patent WO 200028467
EP 1125245   A1 E   G06K-009/00   Based on patent WO 200028467
   Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
   LU MC NL PT SE
JP 2002529863 W   80 G06T-001/00   Based on patent WO 200028467

Abstract (Basic): WO 200028467 A1
     NOVELTY - A computer processor generates a description record,
   including an image object description, image object hierarchy
   description, and an entity relation graph description, to represent
   content embedded within an image information. The computer processor is
   used to process the image information by performing an image object
   extraction processing to generate image object descriptions.
     DETAILED DESCRIPTION - The computer processor is used to process
   the generated image object descriptions by object hierarchy
   construction and extraction processing to generate image object
   hierarchy descriptions. The generated image object descriptions are
   processed by entity relation graph generation processing in order to
   generate entity relation graph descriptions. INDEPENDENT CLAIMS are
   also included for the following:
     (a) a method for generating a description record from image
   information;
     (b) and a computer readable media.
     USE - Used for generating description record from image
   information.
     ADVANTAGE - Obtains an extensible, scalable description system for
   image content which satisfies the requirements of a certain proposed
   media standard such as MPEG 7 standard. Obtains an efficient content
   description scheme for generic **multimedia** information.
     DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
   the image description system.
     pp; 79 DwgNo 2/8
Title Terms: IMAGE; DESCRIBE; SYSTEM; GENERATE; DESCRIBE; RECORD; IMAGE;

INFORMATION
Derwent Class: P85; T01; W02; W04
International Patent Class (Main): G06K-009/00; G06T-001/00
International Patent Class (Additional): G06F-003/00; **G06F-007/00** ;
  G06F-015/00; G06F-017/30; G06K-009/34; G06K-009/36; G06K-009/46;
  G06K-009/56; G06K-009/60; G06T-007/00; G09C-005/00; H04N-005/92;
  H04N-007/12; H04N-007/24
File Segment: EPI; EngPI

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S2       26571    AU=(LI C? OR LI, C?)
S3          68    AU=(NATSEV A? OR NATSEV, A?)
S4       37901    AU=(SMITH J? OR SMITH, J?)
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S6        9172    (S1 OR S2 OR S3 OR S4)AND (LEVEL? OR MULTIMEDIA? OR MULTI(-
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                  G?)
S11         25    S9 AND (CONCEPT? OR MODULE? OR TEMPLATE? OR CONSTRUCT?)
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S13         46    RD (unique items)
S14         37    S13 NOT PY>2001
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File    674:Computer News Fulltext 1989-2004/Dec W2
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7000745   INSPEC Abstract Number: C2001-09-6160M-012
 Title: **Constrained querying of multimedia databases: issues and approaches**
   Author(s):   **Natsev, A.** ; **Smith, J.R.** ; **Chang, Y.** ; **Li, C.** ; Vitter,
J.S.
   Author Affiliation: Dept. of Comput. Sci., Duke Univ., Durham, NC, USA
   Abstract: This paper investigates the problem of high-level querying of
multimedia data by imposing arbitrary domain-specific constraints among
multimedia objects. We argue that the current structured query mode, and
the   query-by-content   model,   are   insufficient   for many important
applications, and we propose an alternative query framework that unifies
and extends the previous two models. The proposed framework is based on the
querying-by-concept paradigm, where the query is expressed simply in terms
of concepts, regardless of the complexity of the underlying multimedia
search engines. The query-by-concept paradigm was previously illustrated by
the CAMEL system. The present paper builds upon and extends that work by
adding arbitrary constraints and multiple levels of hierarchy in the
concept representation model. We consider queries simply as descriptions of
virtual data set, and that allows us to use the same unifying concept
representation for query specification, as well as for data annotation
purposes. We also identify some key issues and challenges presented by the
new framework, and outline possible approaches for overcoming them. (34
 Refs)
   Subfile: C
   Descriptors: constraint handling; content-based retrieval; image
retrieval; multimedia databases
   Identifiers: constrained querying; multimedia databases; domain-specific
constraints; querying-by-concept; CAMEL system; image retrieval; content
based retrieval; MPEG 7
   Class Codes: C6160M (Multimedia databases); C4250 (Database theory);
C7250R (Information retrieval techniques)

5114645   INSPEC Abstract Number: B9601-6140C-102, C9601-6160S-001
  Title: **Extracting multi-dimensional signal features for content-based visual** query
  Author(s): Chang, S.-F.; **Smith, J.R.**
  Author Affiliation: Dept. of Electr. Eng., Columbia Univ., New York, NY, USA
  Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.2501, pt.2   p.995-1006
  Publication Date: 1995 Country of Publication: USA
  CODEN: PSISDG ISSN: 0277-786X
  U.S. Copyright Clearance Center Code: 0 8194 1858 7/95/$6.00
  Conference Title: Visual Communications and Image Processing '95
  Conference Sponsor: SPIE; IEEE; Nat. Sci. Council; Minist. Educ
  Conference Date: 24-26 May 1995   Conference Location: Taipei, Taiwan
  Language: English   Document Type: Conference Paper (PA); Journal Paper (JP)
  Treatment: Applications (A); Theoretical (T)
  Abstract: Future large visual information systems (such as image **databases** and **video** servers) require effective and efficient methods for indexing, accessing, and manipulating images based on visual content. This paper focuses on automatic extraction of low- **level** visual features such as texture, color, and shape. Continuing our prior work in compressed **video** manipulation, we also propose the possibility of deriving visual features directly from the compressed domain, such as the DCT and wavelet **transform** domain. By stressing the low- **level** features, we hope to achieve generic techniques applicable to general applications. By exploring the compressed-domain content extractability, we hope to reduce the computational complexity. We also propose a quad-tree based data structure to bind various signal features. Integrated feature maps are proposed to improve the overall effectiveness of the feature-based image **query** system. Current technical progress and system prototypes are also described. Part of the prototype work has been integrated into the **multimedia** /VOD testbed in the Advanced Image Laboratory of Columbia University. (35 Refs)
  Subfile: B C
  Descriptors: computational complexity; data compression; discrete cosine **transforms** ; feature extraction; image colour analysis; image texture; quadtrees; **query** processing; visual **databases** ; wavelet **transforms**
  Identifiers: multi-dimensional signal features; content-based visual **query** ; large visual information systems; image **databases** ; **video** servers; visual content; automatic extraction; low- **level** visual features; texture; color; shape; compressed **video** manipulation; DCT domain; wavelet **transform** domain; computational complexity; quad-tree based data structure; integrated feature maps; feature-based image **query** system; Columbia University
  Class Codes: B6140C (Optical information, image and video signal processing); C6160S (Spatial and pictorial databases); C1250 (Pattern recognition); C5260B (Computer vision and image processing techniques); C4250 (Database theory)

03790635   E.I. No: EIP94011195880
   Title: **Interoperable** query **processing with multiple heterogeneous knowledge servers**
   Author: Raschid, Louiqa; **Chang, Yahui** ; Dorr, Bonnie J.
   Corporate Source: Univ of Maryland, MD, USA
   Conference Title: Proceedings of the 2nd International Conference on Information and Knowledge Management
   Conference Location: Washington, DC, USA Conference Date: 19931101-19931105
   Sponsor: ACM, SIGART; ACM, SIGIR; International Society of Computers and Applications
   E.I. Conference No.: 19822
   Source: Proc 2 Int Conf Inf Knowl Manage 1993. Publ by ACM, New York, NY, USA. p 461-470
   Publication Year: 1993
   ISBN: 0-89791-626-3
   Language: English
   Document Type: CA; (Conference Article)   Treatment: A; (Applications); G ; (General Review)
   Journal Announcement: 9403W2
   Abstract: This paper describes a technique for information mediation when multiple heterogeneous knowledge and data servers are to be accessed during **query** processing. One problem is building an intelligent interface between each knowledge server (KS) and its processor (KP); and the second is to provide interoperability among multiple KP/KS so that a **query** may be answered using information from multiple sources. We present example scenarios which highlight these problems and then outline **query** mapping and **transformation** techniques that are applicable. The techniques for solving the interoperability problems involve representations in some canonical form. This includes a canonical representation (CR) corresponding to each KP/KS pair and a merged CR (MCR) to represent·the mapping among the CRs. The MCR and CRs include relevant information obtained from a source **query** , and heterogeneous mapping (het-map) information, for all possible mappings among the multiple servers. The knowledge in the canonical form must be represented so that it can be easily accessed during **query transformation** . We use an example of **translating queries** from an object schema to a relational schema to illustrate typical knowledge that must be represented in some canonical form. We use a·high **level** logical language, F-logic, to represent the heterogeneous mapping (het-map) and **query transformation** information as a set of declarative rules, in the canonical form. (Author abstract) Refs.
   Descriptors: *Data processing; **Query** languages; Knowledge based systems ; Information management; Data acquisition; Merging; Relational **database** systems; Encoding (symbols); Program processors; Program **translators**
   Identifiers: **Query** processing; Multiple heterogeneous knowledge servers ; Canonical representation; Information mediation
   Classification Codes:
   723.2 (Data Processing); 723.3 (Database Systems); 723.4 (Artificial Intelligence); 912.2 (Management); 903.1 (Information Sources & Analysis) ; 723.1 (Computer Programming)
   723 (Computer Software); 912 (Industrial Engineering & Management); 903 (Information Science)
   72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT); 90 (GENERAL ENGINEERING)

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File 636:Gale Group Newsletter DB(TM) 1987-2005/Jan 05
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        (c) 2004 McGraw-Hill Co. Inc
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        (c) 2004 ProQuest
File 613:PR Newswire 1999-2005/Jan 03
        (c) 2005 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
        (c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2004/Sep
        (c) 2004 The HW Wilson Co
File 696:DIALOG Telecom. Newsletters 1995-2005/Jan 04
        (c) 2005 The Dialog Corp.
File 553:Wilson Bus. Abs. FullText 1982-2004/Sep
        (c) 2004 The HW Wilson Co
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Jan 05
        (c) 2005 The Gale Group
File 674:Computer News Fulltext 1989-2004/Dec W2
        (c) 2004 IDG Communications
File  88:Gale Group Business A.R.T.S. 1976-2005/Jan 03
        (c) 2005 The Gale Group
File 369:New Scientist 1994-2005/Dec W4
        (c) 2005 Reed Business Information Ltd.
File 160:Gale Group PROMT(R) 1972-1989
        (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2005/Jan 04
        (c) 2005 ProQuest Info&Learning
File  15:ABI/Inform(R) 1971-2005/Jan 04
        (c) 2005 ProQuest Info&Learning
File   9:Business & Industry(R) Jul/1994-2005/Jan 04
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03531160   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Managing multimedia information in database systems
Grosky, William I
Communications of the ACM (GACM), v40 n12, p72-80, p.9
 Dec 1997
 ISSN: 0001-0782   JOURNAL CODE: GACM
 DOCUMENT TYPE: Feature
 LANGUAGE: English   RECORD TYPE: Fulltext; Abstract
WORD COUNT: 4968

TEXT:
...   launch the field of multimedia indexing. Multimedia indexing, in
turn, started the ball rolling toward **multimedia   query** optimization
techniques.
     A **multimedia   query** was seen as quite **different** from a standard
database   query and closer to queries in an information-retrieval
setting. The implications of this important concept...

Intelligent query answering by knowledge discovery techniques.
Han, Jiawei; Huang, Yue; Cercone, Nick; Fu, Yongjian

AUTHOR ABSTRACT: Knowledge discovery facilitates querying **database**
knowledge and intelligent **query** answering in **database** systems. In this
paper, we investigate the application of discovered knowledge, concept
hierarchies, and knowledge discovery tools for intelligent **query**
answering in **database** systems. A knowledge-rich data model is constructed
to incorporate discovered knowledge and knowledge discovery...

...query answering using discovered knowledge and/or knowledge discovery
tools, which includes generalization, data summarization, **concept
clustering** , rule discovery, query rewriting, deduction, lazy evaluation,
application of **multiple** -layered **databases** , etc. Our study shows that
knowledge discovery substantially broadens the spectrum of intelligent
query answering...
...Terms - Database and knowledge-base systems, knowledge discovery in
databases, knowledge-rich data model, intelligent **query** answering,
multiple layered **databases** , **query** analysis and **query** processing.

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Set      Items    Description
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                  IMAGE?) OR MPEG? OR MPG? OR WAV OR VIDEO? OR AUDIO? OR SOUND-
                  ?)
S3         574    (LOW OR HIGH)()LEVEL? OR HIGHLEVEL? OR LOWLEVEL?
S4        5563    TRANSLAT? OR TRANSFORM? OR REFORMAT? OR CONVERT? OR CONVER-
                  SION? OR COMPILE?
S5         772    (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR MANY OR
                  SEVERAL OR DIFFERENT?)(3N)(DATABASE? OR ENGINE? OR SEARCHENG-
                  INE? OR DB OR RDB OR DATA()(BANK? OR BASE?))
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S8           0    S2 AND S3 AND S4
S9          34    S2 AND S4
S10          0    S9 AND S5
S11          1    S9 AND S6
S12          0    S9 AND S7
S13          4    S2 AND S3
S14          5    S11 OR S13
S15          5    S14 NOT PY>2001
S16          3    S15 NOT PD>20010809
File 256:TecInfoSource 82-2004/Dec
         (c) 2004 Info.Sources Inc
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